

**A METHOD FOR TARGET QUEUE TIME CALCULATION  
IN SEMICONDUCTOR MANUFACTURING PLANNING**

**ABSTRACT**

[0027] A method is provided for product culmination estimation in a microelectronics manufacturing environment. The method includes providing a manufacturing executing system including a plurality of processing entities. The manufacturing executing system provides interconnectivity and management of the processing entities. The method also assigns a standard queue time factor to product advancing through the manufacturing executing system, and determines an actual and theoretical cycle time and associated with the product through each process entity of the manufacturing executing system. The method further includes anticipating a target queue time for the product through the manufacturing executing system, and forecasting product cycle time of the product through the manufacturing executing system.